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The application of additive technologies in creation a medical simulator-trainer of the human head operating field

Kashapov L., Kashapov N., Kashapov R., Pashaev B.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The aim of the work was to determine the possible application of additive manufacturing technology during the manufacturing process as close as possible to reality of medical simulator-trainers. In work were used some additive manufacturing technologies: selective laser sintering (SLS), fused deposition modeling (FDM), binder Jetting. As a result, a prototype of simulator-trainer of the human head operating field, which based on the CT real patient, was manufactured and conducted its tests. It was found that structure, which is obtained with the use of 3D-printers ProJet 160, most appropriate and closest to the real properties of the bone.

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